

Serial No. 10/527,570
Art Unit 2625

PD020089
Customer No. 24498

What is claimed is:

1-14. (Cancelled)

15. (Previously presented) Apparatus for correcting color video signals, comprising:
a matrix, through which the color video signals pass to control the proportions of three primary colors in matrixed color value signals,
means for controlling the matrix as a function of hue of the color video signals respectively,
means for controlling the matrix as a function of color saturation;
memories for storing information which the matrix uses to control the color value signals;
and
a converter for generating a hue signal from the color video signals, the hue signal connected to inputs of the memories;
wherein the matrix comprises nine multipliers and three adders,
wherein three of the nine multipliers are connected to one adder, respectively.

16. (Previously presented) Apparatus according to Claim 15, wherein the memories store coefficients of the matrix that are set as a function of hue of the color video signals.

17. (Previously presented) Apparatus according to Claim 15, wherein the memories store correction values for coefficients of the matrix, wherein the correction values are set as a function of hue of the color video signals.

18-19. (Cancelled)

20. (Currently amended) Apparatus according to Claim 16, wherein the converter generates a color saturation signal from the color video signals, supplied to multipliers located in the supply lines of the correction values to the matrix.

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21. (Currently amended) Apparatus according to Claim 17, wherein the converter generates a color saturation signal from the color video signals, supplied to multipliers located in the supply lines of the correction values to the matrix.

22. (Previously presented) Apparatus according to Claim 16, wherein the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

23. (Previously presented) Apparatus according to Claim 17, the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

24. (Previously presented) Apparatus according to Claim 20, the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

25. (Previously presented) Apparatus according to Claim 21, wherein the color video signals are provided as color value signals, wherein the converter comprises a converter matrix for generating color difference signals and a coordinate converter.

26. (Previously presented) Apparatus according to Claim 20, wherein one of the memories supplies a correction coefficient to a respective one of the further multipliers.

27. (Cancelled)

28. (Previously presented) Apparatus according to Claim 16, further comprising a computer for loading the correction values into the memories, and the means for controlling the matrix having a program on a computer readable medium for setting the correction values.

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29. (Previously presented) Apparatus according to Claim 28, comprising a device for the manual setting of the correction values.
30. (Cancelled).
31. (Cancelled).
32. (Previously presented) Apparatus according to Claim 15, further comprising logarithmizers connected upstream of the matrix and delogarithmizers connected downstream of the matrix.
33. (Previously presented) Apparatus according to Claim 20, wherein one of the memories supplies a correction value to respective one of the multipliers.
34. (Previously presented) Apparatus according to Claim 21, wherein one of the memories supplies a correction value to respective one of the multipliers.
35. (Previously presented) Apparatus according to Claim 15, further comprising three limiters, connected downstream of the matrix, configured to limit each color signal to a maximum value governed by a quantization.